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(3) Initials of the Reforancer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	481 (3)	Press
B.P. No.		Mis.
Dated 22-2-		1876.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
22nd February 1876.*

No. 401. Read the following endorsement of the Chief Engineer for Irrigation, dated Fort St. George, 2nd February 1876, No. 142 :—
From J. H. LATHEAM, Esq., Chief Engineer and Manager, Madras Irrigation and Canal Company, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, Public Works Department, dated Kurnool, 5th January 1876, No. 2.

* Four sheets.

I HAVE the honor to enclose the Regular Estimates* for the year 1876-77, amounting to Rupees 1,78,627, viz. :—

Estimated expenditure of Capital	...	...	...	...	...	23,030
" " of Revenue	...	...	...	...	...	1,55,597
Total	...	...	...	...	...	1,78,627

2. Assuming that no expensive accident occur greater than any which has befallen the canal since it was fully opened, there can be no doubt that Rupees 1,75,000 a-year is ample to keep the canal efficient for navigation and irrigation, including the keeping of all the canal itself and its channels free from silt.

3. The amount of irrigation might largely increase, enough to pay a good dividend, without causing more expense in supervising it, than will be saved as the village land plans and other matters are finally completed or got rid of.

4. The estimated cost of maintenance for 1876-77* shows no change worthy of remark, except that the number and quality of the amins is proposed

* Supervision and personal staff	...	45,180	to be increased slightly, in order to
Overseers, bankers, &c.	...	38,255	prevent delay in the registering of appli-
Repairs	...	31,100	cations made to them for water. The
Management, &c.	...	41,061	amount put down for repairs seems to me
Total	...	1,55,597	

rather small if all the locks are to be kept in thorough repair, but every effort shall be made to make it suffice. The heaviest canal repairs will be the clearing of the 10th section of silt, and the effective repair of the scouring sluices in the 6th mile. In the tank of the 6th mile a calingulah will shortly be wanted on the south or upper side of canal. The third-class bridge alterations and the two new second-class bridges are in progress; the former will be completed within the next three months, the latter are necessarily delayed on account of the water in the canal, but as soon as the foundations of the piers can be got in no time will be lost in completing them.

*MADRAS IRRIGATION AND CANAL COMPANY.
Capital Account for Season 1876-77.*

The following items of Capital expenditure it is proposed to spend out of the estimates already sanctioned in G.O., 2,837, of 1st Oct. 1875—

	RS.	RS.
Constructing 2nd-class bridge at Gopalasingarum	...	7,160
Altering 3rd-class bridge at Nidjood into 2nd-class	...	1,010
Do. do. at Mangalapad	...	1,115
Do. do. at Massarumassad	...	1,540
Constructing 2nd-class bridge at Mochmurri	...	6,070
Altering 3rd-class bridge at Bollaram into 2nd class	...	2,785
		20,880

Proceedings of the Madras Government, Public Works Department,
22nd February 1876.

Capital Account for Season 1876-77.—(Concluded.)

							RS.	RS.
And for the following items sanction is now solicited:—								
If necessary	Distribution, Upper Division, 21st mile, 2nd section, 1 irrigating sluice.						200	
	Do.	do.	75th	6th	1	"	300	
	Do.	do.	92nd	6th	1	"	250	
	Do.	Lower Division, 1 irrigating sluice, 8th Section				...	250	
		1	"	"	10th	"	250	
Buildings, Lower Division—								1,250
7th Section, 1 Overseer's house...							300	
8th do. 1 do. ...							300	
9th do. 1 do. ...							300	
Total ...								900
								23,030

(Signed) J. H. LATHAM,
Chief Engineer and Manager.
(Signed) W. F. CRAWFORD,
Acting Chief Accountant.

Revenue Account for Season 1876-77.

I.—Permanent Staff.							RS.	RS.	RS.
Engineers, Surveyors and Office							...	45,180	
Overseers, Bankers, and Tindals							...	37,056	
Contingencies							...	1,200	
									83,436
II.—Special Repairs.							RS.	RS.	RS.
Main Canal, Upper Division							14,250		
Do. Lower do.							7,410		
								21,660	
Distribution, Upper Division							2,500		
Do. Lower do.							2,857		
								5,357	
Buildings, Upper Division							1,000		
Do. Lower do.							476		
								1,476	
Contingencies							...	1,447	
Telegraph, Upper Division							...	100	
									30,040
Repairing Muddigutla bridge and widening the roadway for bandy traffic, sanctioned in G.O., No. 2,837, of 1st October 1875							...		1,060
Total ...									1,14,536

(Signed) J. H. LATHAM,
Chief Engineer and Manager.
(Signed) W. F. CRAWFORD,
Acting Chief Accountant.

Proceedings of the Madras Government, Public Works Department,
22nd February 1876.

Conservancy Establishment, Season 1876-77.

Office.	PRESENT SCALE.				PROPOSED SCALE.			
	Number.	Salary.	Allowance.	Total.	Number.	Salary.	Allowance.	Total.
<i>Upper Division.</i>								
Engineers	2	1,600	300	1,900	2	1,300	300	1,600
Chainmen	8	56	...	56	8	56	...	56
Overseers	4	260	100	360	8	400	100	500
Amins	4	80	...	80	...	...	...	...
Bankers	141	846	...	846	141	846	...	846
Tindals	3	40	...	40	3	40	...	40
Regulating Sluicemen	8	48	...	48	8	48	...	48
Surveyor	1	100	40	140	1	100	40	140
Chainmen to do.	3	21	...	21	3	21	...	21
Accountant and Clerks	3	90	...	90	3	100	...	100
Cash Peons	2	14	...	14	2	14	...	14
Signallers	2	40	...	40	2	40	...	40
Contingencies (Stationery)	...	263	...	263	...	50	...	50
Total	...	3,221	440	3,661	...	3,015	440	3,455
<i>Lower Division.</i>								
Engineers	2	1,100	270	1,370	2	1,200	270	1,470
Chainmen	8	56	...	56	7	49	...	49
Overseers	4	260	100	360	8	400	100	500
Amins	4	80	...	80	...	...	...	...
Bankers	188	1,128	...	1,128	171	1,026	...	1,026
Head Sluice Tindals	3	50	...	50	5	50	...	50
Tail do.	1	...	...	...	...	...	...	...
Sluicekeepers	16	96	...	96	13	78	...	78
Surveyor	1	90	40	130	1	100	40	140
Chainmen to do.	33	21	...	21	3	21	...	21
Accountant and Clerks	3	90	...	90	3	100	...	100
Cash Peons	2	14	...	14	2	14	...	14
Contingencies (Stationery)	...	263	...	263	...	50	...	50
Total	...	3,011	410	3,421	...	3,088	410	3,498
Monthly Grand Total	...	6,233	850	7,083	...	6,103	850	6,953
Grand Total per annum	...	...	...	85,000	...	...	...	83,436

(Signed) W. F. CRAWFORD, Acting Chief Accountant. (Signed) J. H. LATHAM, Chief Engineer and Manager.

General Management for Season 1876-77.

Office.	SANCTIONED SCALE.				PRESENT WORKING SCALE.			
	Number.	Salary.	Allowance.	Total.	Number.	Salary.	Allowance.	Total.
<i>Chief Accountant's Office.</i>								
Chief Accountant	1	750	50	800	1	300	...	300
Chief Clerk	1	110	...	110	...	...	...	...
Clerk	1	55	...	55	...	...	...	...
Postage Clerk	1	50	...	50	...	...	...	...

*Proceedings of the Madras Government, Public Works Department,
22nd February 1876.*

General Management for Season 1876-77.—(Concluded.)

Office.	SANCTIONED SCALE.				PRESENT WORKING SCALE.			
	Number.	Salary.	Allowance.	Total.	Number.	Salary.	Allowance.	Total.
<i>Chief Accountant's Office.—(Concl'd.)</i>		RS.	RS.	RS.		RS.	RS.	RS.
Clerk	1	35	...	35	...	...	...	...
Do.	3	75	...	75	1	30	...	30
Do.	1	18½	...	18½	...	...	...	...
Assistants to Chief Accountant ...	2	248	...	248	1	110	...	110
Store Auditor	1	70	...	70	...	...	...	...
Store Assistant	1	70	...	70	1	70	...	70
Examiners	3	155	...	155	2	120	...	120
Tindal	1	17	...	17	...	...	...	...
Mooche	1	15	...	15	1	10	...	10
Officekeeper	1	15	...	15	...	...	...	...
Lascars	6	46	...	46	4	20½	...	29½
Peons	8	61½	...	61½	3	21	...	21
Watchers	1	14	...	14	3	19½	...	19½
Menials	4	10	...	10	1	2½	...	2½
Total	...	1,815	50	1,865	...	712½	...	712½
<i>Chief Engineer's and Manager's Office.</i>								
Chief Engineer and Manager ...	1	2,500	200	2,700	1	2,500	200	2,700
Head Clerk	1	140	...	140	1	130	...	130
Clerks	3	150	...	150	5	135	...	135
Draughtsmen	2	65	...	65	1	50	...	50
Peons and Chaiamen	4	27	...	27	6	42	...	42
Menials	4	8	...	8	...	...	...	...
Line Peon	1	10	...	10	...	...	...	...
Consulting Surgeon	1	50	...	50	1	50	...	50
Dressers	2	70	30	100	3	80	20	100
Sweeper	1	1½	...	1½	1	2	...	2
Contingencies	...	104½	...	104½	...	140	...	140
Total	...	3,125½	230	3,355½	...	3,129	220	3,349
Grand Total per Mensem ...	...	4,940½	280	5,220½	...	3,841½	220	4,061½
" " " Annum ...	...	...	...	62,648	...	...	...	*48,738

* Capital	...	...	...	Rupees	7,677
Revenue	...	...	...	"	41,061
				"	48,738

(Signed) W. F. CRAWFORD,
Acting Chief Accountant.

(Signed) J. H. LATHAM,
Chief Engineer and Manager.

SUBMITTED to Government.

A memorandum of comparison between the Budget Estimates of 1876-77 and the programme of expenditure now submitted by the Chief Engineer and Manager, Madras Irrigation and Canal Company, is appended. In this the charges for General Management under Capital and Revenue respectively have been entered. The latter

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22nd February 1876.*

has been found by subtracting the total Rupees 1,14,536 of the "Revenue Account" from the sum of Rupees 1,55,597 named in paragraph 1 of Mr. Latham's letter, and the balance of the General Management estimate has been shown against Capital.

2. A statement of intended outlay on works chargeable to Capital is annexed to the letter. The expenditure is divided as follows:—

	rs.
Main Canal	20,880
Distribution	1,250
Buildings	900
	23,030
Establishment, General Management ...	7,677
Total, Capital ...	30,707

Estimates for the works under Main Supply have been sanctioned, and sanction is asked for those under the other heads. Sanction may be given subject to the balance of Capital on the 1st April being shown to be sufficient, as required by paragraph 4 of G.O., No. 3,549, of the 18th December 1875.

3. The proposed Revenue expenditure is under—

	rs.
<i>Works.</i>	
Repairs to Main Canal	22,720
Do. Distribution Works	5,357
Do. Buildings	1,476
Do. Telegraph	100
Contingencies	1,447
	31,100
<i>Establishment.</i>	
General Management	41,061
Conservancy staff	83,436
	1,24,497
Total, Revenue ...	1,55,597

The proposed expenditure on works appears to be reasonable. Taking into consideration, however, the results of the irrigation season of 1874-75, and the probable results of that of 1875-76, it appears to be necessary to take steps to reduce the charge for establishments to an extent which will effect a material saving in working expenses. It will be seen from the detailed statement of conservancy establishment, that the present scale amounts to Rupees 85,000 a-year, and the proposed scale to Rupees 83,436 as above given. Included in this scale are bankers, who may be considered as laborers on monthly pay, and they are estimated to cost Rupees 1,872 a-month or per annum Rupees 22,464, Rupees 1,200 also

are for contingencies, leaving Rupees 59,762 for establishment. Of this amount

Rupees 3,070 a-month, or Rupees 36,840 a-year, are for Engineers, of whom two are allowed for the Upper and two for the Lower Division, and it appears to be necessary that the number and cost should be reduced by about one-half. Even then the Executive Establishment will cost 166 per cent. on the works outlay and about 63 per cent. on that added to the canal revenue, while General Management and Executive Establishment together are in the estimate just four times the works expenditure—a proportion which is altogether unreasonable.

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4. The Chief Engineer and Manager mentions that he considers that the canal may, if there be no serious accidents, be maintained in an efficient state for irrigation and navigation at a cost of $1\frac{1}{4}$ lakhs a-year, but this charge is one which, in connection with its present circumstances, or with even the most sanguine estimate of the probable circumstances of the next five years, must be deemed excessive. General Management and Executive Establishment, exclusive of bankers, should not cost anything like Rupees 1,10,000. Rupees 60,000, or 5,000 a-month, should suffice, and it is thought that to this amount the cost of establishments should be made to approximate as soon as the Board of Directors may be able, in connection with the agreement into which they have entered, to effect a reduction.

(Signed) A. DEC. SCOTT, Major, R.E.,
for Chief Engineer for Irrigation.

Memorandum of Comparison between the items entered in the Statements of Agent's Estimate and Budget Estimate for 1876-77.

Items.	Budget for 1876-77, Vide G.O., No. 3,549, dated 18th Dec. 1875.	As per Agent's Estimates.	DIFFERENCE.	
			Increase.	Decrease.
<i>Loan Capital.</i>	RS.	RS.	RS.	RS.
Establishment, General Management...	10,950	* 7,677	...	3,273
Main Canal ...	28,950	20,880	...	8,070
Distribution Channels ...	3,000	1,250	...	1,750
Buildings ...	900	900	...	...
Total ...	43,800	30,707	...	13,093
Net decrease ...	...	...	...	13,093
<i>Revenue.</i>				
Share of General Management ...	40,572	41,061	489	...
Conservancy Staff, Upper Division ...	38,460	41,460	3,000	...
Do. Lower do. ...	41,016	41,976	960	...
Repairs to Main Canal, including Upper and Lower Sections and Contingencies ...	25,800	21,660	...	3,080
Do. to Distribution works do. do. ...	8,000	5,357	...	2,643
Do. to Buildings do. do. ...	1,500	1,476	...	24
Do. to Telegraph line ...	250	100	...	150
Contingencies ...	...	1,447	1,447	...
Total ...	1,55,598	1,55,597	5,896	5,897
Deduct ...	...	...	...	5,896
Net decrease ...	...	...	...	1

* This sum is not provided in the Agent's Statement.

No. 402. ORDER THEREON, 22nd February 1876, No. 481.

IRRIGATION, No. 41.

Accounts.

His Grace the Governor in Council approves of the programme of expenditure on works under Capital and Revenue submitted by the Chief Engineer and Manager, Madras Irrigation and Canal Company, but as pointed out in the Government Order

*Proceedings of the Madras Government, Public Works Department,
22nd February 1876.*

as per margin, reviewing the Revenue Statements for the year 1874-75, it is necessary that there should be an immediate and radical reduction of the cost of the canal establishments which, as regards both number and scale of salaries of the superior appointments, are out of proportion to either the work or revenue to be looked after. While it was hoped that by a development of irrigation the canal could be made shortly to cover its working expenses the Government forbore to press for a reduction, but as there is now no prospect of the growth of revenue at a rate which would justify the continued maintenance of establishments which would be unduly costly were the revenue of 1874-75 quadrupled, a material reduction of expenditure is necessary and should be provided for without delay.

2. Pending the receipt of a report from the Chief Engineer and Manager of information as to the reductions he can at once effect, of the measures which the Board of Directors may take in conformity with these instructions, and of a revised estimate for 1876-77, no orders will be passed as to the scale of establishment to be maintained.

(True Extract.)

Major-General, R.E.,
Secretary to Government.

To the Chief Engineer and Manager, Madras Irrigation and Canal Company.
" Chief Engineer for Irrigation.
" Examiner, Irrigation Company's Accounts.

Ed S. T. Austin.

Spare Copies

Madras, Mr. and Commr. C.
General Management for Decr. 1876-77

Office	Sanctioned Salaries			Present working Salaries				
	No.	Salary	Allowance	Total	No.	Salary	Allowance	Total
Chief Accountants Office		Rs.	Pais.	Rs.		Rs.	Pais.	Rs.
Chief Accountant	1	750	50	800	1	500	-	500
Chief Clerk	1	110	-	110				
Clerk	1	55	-	55				
Postage Clerk	1	50	-	50				
Clerk	1	35	-	35				
D ^o	3	75	-	75	1	30	-	30
D ^o	1	18½	-	18½				
Assistants to Chief Accountant	2	248	-	248	1	110	-	110
Store Auditor	1	70	-	70				
Store Assistant	1	70	-	70	1	70	-	70
Examiners	3	155	-	155	2	120	-	120
Peons	1	7	-	7				
Watchmen	1	15	-	15	1	10	-	10
Office Keeper	1	15	-	15				
Lascars	6	46	-	46	4	29½	-	29½
Peons	8	61½	-	61½	3	21	-	21
Watchmen	4	14	-	14	3	19½	-	19½
Menials	4	10	-	10	1	2½	-	2½
Total		1815	50	1865		712½	-	712½
Chief Engineer & Manager's Office								
Chief Engineer & Manager	1	2,500	200	2,700	1	2,500	200	2,700
Head Clerk	1	140	-	140	1	130	-	130
Clerk	3	150	-	150	5	135	-	135
Broughtonman	2	65	-	65	1	50	-	50
Peons & Chainmen	4	27	-	27	6	42	-	42
Menials	4	8	-	8				
Line Peon	1	10	-	10				
Consulting Surgeon	1	50	-	50	1	50	-	50
Dressers	2	70	30	100	3	80	20	100
Sweeper	1	1½	-	1½	1	2	-	2
Contingencies		105½	-	105½		140	-	140
Total		5,055	230	5,285		3,047	220	3,267
Grand Total		19,405	280	19,685		38,417	220	38,637
Grand Total of Allowances			62,648					62,648

Grand Total of Accounts
W. Crawford. Capital & Reserves 15,770. Min. H. Lottman
Chief Accountant. Revenue 12,738 Chief Engineer & Manager

*Multras Irr. and Canal Co.
Conservancy Establishment Season 1876-77.*

Office	Present Scale				Proposed Scale			
	No.	Salary	Allowance	Total	No.	Salary	Allowance	Total
<i>Upper Division</i>								
Engineers	2	1650	500	1900	2	1800	500	1900
Chairmen	8	56	-	56	8	56	-	56
Overseers	4	260	100	260	8	400	100	500
Amins	4	80	-	80	8	80	-	80
Bankers	141	846	-	846	141	846	-	846
Jindals	3	40	-	40	3	40	-	40
Regulating Sluicemen	8	48	-	48	8	48	-	48
Surveyor	1	100	40	140	1	100	40	140
Chairmen to do	3	21	-	21	3	21	-	21
Accountant & Clerks	3	90	-	90	3	100	-	100
Cash Pions	2	14	-	14	2	14	-	14
Signaller	2	40	-	40	2	40	-	40
Contingencies (Stationary)	-	26 $\frac{2}{3}$	-	26 $\frac{2}{3}$	-	80	-	80
<i>Total</i>	<i>1</i>	<i>3227$\frac{2}{3}$</i>	<i>440</i>	<i>3667$\frac{2}{3}$</i>	<i>1</i>	<i>3015</i>	<i>440</i>	<i>3455</i>
<i>Lower Division</i>								
Engineers	2	1100	270	1370	2	1200	270	1470
Chairmen	8	56	-	56	7	49	-	49
Overseers	4	260	100	360	8	400	100	500
Amins	4	80	-	80	8	80	-	80
Bankers	188	1128	-	1128	171	1026	-	1026
Head Sluice Jindals	3	50	-	50	5	50	-	50
Tail Sluice do	16	96	-	96	13	78	-	78
Sluice Keepers	7	40	40	120	1	100	40	140
Surveyor	1	21	-	21	3	21	-	21
Chairmen to do	3	90	-	90	3	100	-	100
Cash Pions	2	14	-	14	2	14	-	14
Contingencies (Stationary)	-	28 $\frac{2}{3}$	-	28 $\frac{2}{3}$	-	80	-	80
<i>Total</i>		<i>3015$\frac{2}{3}$</i>	<i>440</i>	<i>3455$\frac{2}{3}$</i>		<i>3088</i>	<i>410</i>	<i>3498</i>
<i>Monthly Grand Total</i>		<i>6233$\frac{2}{3}$</i>	<i>850</i>	<i>7083$\frac{2}{3}$</i>		<i>6103</i>	<i>850</i>	<i>6953</i>
<i>Grand Total Per annum</i>				<i>85000</i>				<i>83400</i>

*W. H. Bedford
Ctd. Chief Accountant*

*John H. Kellum
Chief Engineer & Manager*

*Chief Engineer
for the
Conservancy
Establishment
Season 1876-77.*

10/26/76

Madras Irr. and Canal Co. Revenue Account for Season 1876-77.

	Rs.	P.	As.
I. Permanent Staff			
Engineers, Surveyors and Office	45,180		
Overseers, Bankers and Sindals	37,056		
Contingencies	1,200		
			83,436
II. Special Repairs			
Main Canal Upper Division	14,250		
Do Lower do	2,410		
Distribution Upper Division	2,500		
Do Lower do	2,857		
Buildings Upper Division	1,000		
Do Lower do	476		
Contingencies	1,147		
Telegraph - Upper Division	100		
			30,040
Repairing Muddigutta Bridge and widening the road- way for heavy traffic Sanctioned in G. O. No. 2837 of 1st October 1875			1,060
Mal Papers			11,536

John H. Latham
Chief Engineer & Manager

W. F. Crawford
Actg Chief Accountant

Pro. 22/4/76 B. F. 40,

M. 1072/76

Madras Irr. and Canal Co. Capital Account for Season 1876-77.

	Rs.	Rs.
The following items of Capital Expenditure is proposed to spend out of the estimates already sanctioned in G. O. No. 2837 of 1st October 1875.		
Constructing 2 nd Class Bridge at Cotoiauz	7160	
Altering 3 rd Class Bridge at Kojoot into 2 nd Class	1610	
D ^o do at Mangalapud	1115	
D ^o do at Massamaset	1540	
Constructing 2 nd Class Bridge at Machinag	6670	
Altering 3 rd Class Bridge at Kollaram into 2 nd Class	2785	
		20,880
and for the following items sanction is now solicited.		
Distribution Upper Division 21 st Mile 2 nd Section		
1- Irrigating Sluice	200	
D ^o do 75 th Mile 6 th Section		
1- Irrigating Sluice	300	
D ^o do 92 nd Mile 6 th Section		
1- Irrigating Sluice	250	
D ^o Lower Division		
1- Irrigating Sluice 8 th Section	250	
1- D ^o 10 th D ^o	250	1250
Buildings Lower Division		
7 th Section 1 Overseers House	300	
8 th do 1 D ^o	300	
9 th do 1 D ^o	300	900
Total Rupees		23,080

If necessary

M 1072/76
4

G. S. Crawford
Chief Accountant

Wm. H. Lathorn
Chief Engineer & Manager

Madras Irrigation & C. Co.
 Chief Engineer's Manager's Office
 No. 2. Dated 5th January 1876.

To
 The Chief Engineer for Irrigation
 Fort St. George
 Madras.

Sir,
 I have the honour to enclose the
 Regular Estimates for the year 1876-7, amount-
 -ing to Rs. 1,78,627, viz:
 Estimated Expenditure of Capital ^{Rs.} 23,030 17/11
 Do. of Revenue 1,55,597.
Total 1,78,627.

Assuming that no expensive accidents
 occur greater than any which has befallen
 the Canal since it was fully opened, there can
 be no doubt that Rs. 1,55,000 a year is
 ample to keep the Canal efficient for irri-
 -gation and Irrigation, including the keep-
 -ing of all the Canal itself, and its channels
 free from silt.

The amount of irrigation might
 largely increase, enough to pay a good divid-
 -end, without causing more expense in
 supervising it, than will be saved as the
 village land plans, and other matters, are
 finally completed or got rid of.

The estimated cost of maintenance
 for 1876-7 Shew
 no change wor-
 -thy of remark,
 except that the
 (number

Supervision & personal Staff	45,180 1/2
Overseers, Bankers &c	38,856.
Repairs - - - -	31,100 1/2
Management &c	41,061 1/2
<u>Total</u>	<u>155,597 1/2</u>

Mr 102/170

number and quality of the Amine is pro-
posed to be increased slightly, in order
to prevent delay in the registering of appli-
cations made to them for water. The
amount put down for repairs seems to me
rather small, if all the locks are to be kept
in thorough repair. But every effort shall
be made to make it suffice. The heaviest
Canal repairs will be the clearing of the
10th Section of silt, and the effective repair
of the Scouring Sluices in the 6th Mile. In
the tank of the 6th Mile a Calingulah will
shortly be wanted on the South or upper side
of Canal. The third Class Bridge alterations
and the 2 new Second Class Bridges are
in progress, the former will be completed
within the next three months, the latter
are necessarily delayed on account of the water
in the Canal, but as soon as the foundations
of the piers can be got in, no time will be
lost in completing them.

I have the honor to be
Sir
Your Most Obedient Serv^t

John H. Latham

Chief Engineer & Manager

W. H. Reedford
Actg. Chief Accountant

4. Enclosure

Recd. 22 July 76 W. H. Latham

Memo of Comparison between the above entered in the
 Statements of Agents Estimate & Budget Estimate for 1876-77

Items	Budget 1876-77 220,804 354,998 127	As per Agents Estimate 354,998 127	Difference	
<u>Loan Capital</u>				
Establishment: General Management	10,950	7,677	"	3,273
Main Canal	28,950	20,980	"	8,970
Distribution Channels	3,000	1,250	"	1,750
Buildings	900	900	"	"
Total	43,800	30,707	"	13,093
* This sum is not provided in the Agents' statements.				
			Net decrease 13,093	
<u>Revenue</u>				
Share of General Management	40,572	41,061	489	"
Conservancy staff upper Division	38,460	41,460	3,000	"
do Lower do	41,016	41,976	960	"
Repairs to main canal including Upper & Lower sections & Contingencies	25,800	{ 21,660 10,600 }	"	3,900
B ^d to Distribution Works do do	3,000	5,357	"	2,640
B ^d to Buildings do do do	1,500	1,476	"	24
B ^d to Telegraph line do do	250	100	"	150
Contingencies	"	1447	1447	"
Total	155,598	155,597	5,896	5,897
			Amount 5,896	
			Net decrease 1	

Sept 20 1876

Rev. 22 Feb 76 B.N. 401

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Rev. 20-76

Dec: 22 Feb 10 B.V. 401

Estimate

C.R. No. 8 of 1876.

From,

The Chief Engineer &
Manager B.N.W.C.

Dated 27th January 1876.

Enclosed.

Submitted to Government.

A memorandum of comparison between the budget estimates of 1875-77 and the programme of expenditure now submitted by the Chief Engineer and Manager Madras Irrigation and Canal Company, is appended. In this the charges for general management under Capital and Revenue respectively have been entered. The latter has been found by subtracting the total Rs. 14,536 of the "Revenue Account" from the sum of Rupees 15,597 named in para 1 of Mr. Latham's letter, and the balance of the General Management estimate has been shown against Capital.

2 A statement of intended outlay on works chargeable to Capital is annexed to the letter. The expenditure is divided as follows.

Main Canal	Rupees	20880
Distribution	"	1250
Buildings	"	900
		23030
Establishment General Management	Rs	7677
Total Capital	Rupees	30707

Estimates

mutations that he considers that ~~for~~ ^{the} Canal may, if there be no serious accident, be maintained in an efficient state for irrigation and navigation at a cost of 1/3¢, ^{per} ~~the~~ ^{per} year, but this charge is one which, in connection with its present circumstances, or with even the most sanguine estimate of the probable circumstances of the next 5 years, must be deemed excessive.

General Management and Executive Establishment exclusive of bankers, should not cost anything like Rupees 11,000. Rupees 6,000 or 5,000 a month should suffice, and it is thought that to this amount the cost of establishments should be made to approximate as soon as the Board of Directors may be able, in connection with the agreement into which they have entered, to effect a reduction.

J. H. G. G.
 2nd February 1876

Adal Dutt.

Mayor R. E.
 for Chief Engineer for Irrigation.

The Secretary to Government
 P. M. D.
 No. 22 Feb 76 B. N. 401

S. 2. 924

FORMER CASES.

Current No.	of 187
"	"
"	"
"	"
"	"

LATER CASES.

Current No.	of 187
"	"
"	"
"	"

401

Cir 11-2-76

canal retablistment which,
as regards both number and
scale of salaries of the superior
appointments, are out of pro-
portion to either the work or
revenue to be looked after.
While it was hoped that by
a development of irrigation
the canal could be made
sufficient to cover its working
expenses the Government
forbore to press for a reduction
but as there is now no pros-
pect of the growth of Revenue
at a rate which would justify
the continued maintenance of
retablistment which would
be unduly costly were the revenue
of 1874-75 quadrupled, a
material reduction of expenditure
is necessary and should be
looked for without delay.

Enclosing the receipt of a
from the Chief Engineer
No. 22

Ex: 98A

and Manager of information
as to the reductions he can
at once effect, of the measures
which the Board of Directors
may take in conformity with
these instructions, and of a
revised estimate for 1876-77,
no orders will be passed as
to the scale of retablistment
to be maintained.

Chas. S.

Chas. S.

Chas. S. & Co. Inc. Co.
for
En: J. Co's account.
Ex: 98A. 25-2-76

117²

GOVERNMENT OF INDIA
PUBLIC WORKS.

Mr. Pugh & Messrs.
Madras Engineering
Company

11, 11/11/16

22 Feb.

18/10

Vol. 401-102

Mr. J. H. ...
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